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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 10/748,831 TRANSMITTAL Filing Date 12/30/2003 **FORM** First Named Inventor Richard Boyd Art Unit TBA (to be used for all correspondence after initial filing) **Examiner Name TBA** Attorney Docket Number 20 NOR-016CP2/286336.155US1 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance communication Fee Transmittal Form Drawing(s) to Group Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to Group Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information After Final **Provisional Application** Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Terminal Disclaimer **Extension of Time Request** Identify below): - Postcard Request for Refund **Express Abandonment Request** - Forms PTO-1449 CD, Number of CD(s) Information Disclosure Statement Remarks Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Nancy Wilker Individual name Signature Date 08/06/2004 **CERTIFICATE OF TRANSMISSION/MAILING** I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Janet McKean Date 08/06/2004 Signature

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Boyd, Richard

Examiner: TBA

Serial No.:

10/748,831

Group Art Unit: TBA

Date Filed:

December 30, 2003

For: Hematopoietic Stem Cell Gene Therapy

Atty. Docket No.: NOR-016CP2/286336.155US1

CERTIFICATION OF MAILING UNDER 37 C.F.R. 1.8(a)

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INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b)(3), the Applicant herewith submits the references on the attached Form PTO-1449, of which copies are enclosed. It is respectfully requested that the information enclosed be expressly considered during the prosecution of this application and that the publications be made of record therein and appear among the "References Cited" on any patent to issue therefrom. In this regard, it is asked that the Examiner initial and return a copy of the attached Form PTO-1449 with the next Patent Office Communication.

This submission does not represent that a search has been carried out nor does it constitute an admission that the listed documents are material to the patentability of the invention, or that this enclosed art represents prior art. Applicant reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

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It is the Applicant's belief that the filing of this Information Disclosure Statement precedes the date of the mailing of the first Office Action on the merits, therefore, pursuant to 37 C.F.R. §1.97(b)(3), no fee is believed to be due. In the event that any outstanding fee(s) are due, the Commissioner is authorized to charge any fee deficiency or credit any overpayment to Deposit Account No. <u>08-0219</u>.

Respectfully submitted,

Agent for Applicants

Ann-Louise Kerner, Ph.D., Reg. No. 33,523

Date: August 6, 2004

WILMER CUTLER PICKERING HALE AND DORR LLP 60 State Street Boston, MA 02119 (617)-526-6000 (Telephone) (617)-526-5000 (Facsimile)

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Docket Number NOR-016CP2/ 286336.155US1 Application Number 10/748,831

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		U.S. 1	Patent Documen	its		t
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	3,972,859	Aug 3, 1976	Fujino et al.			
	3,992,365	Nov 16, 1976	Beddell et al.			
	4,003,884	Jan 18, 1977	Konig et al.			
	4,005,063	Jan 25, 1977	Gendrich et al.			
	4,008,209	Feb 15, 1977	Fujino et al.			
	4,010,125	Mar 1, 1977	Schally et al.			
	4,010,149	Mar 1, 1977	Baba et al.			
	4,018,726	Apr 19, 1977	Schally et al.			

17

		Foreigr	Patent Docum	ents				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS YES	TRANSLATION YES NO	
	76177/91	Nov 19, 1992	Australia					
	56394/94	Sep 1, 1994	Australia					
	181236	May 14, 1986	Europe					
	217659	Apr 8, 1987	Europe					
	364819	Apr 25, 1990	Europe					

	Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
A1	Aboudkhil et al., (1991) Scand. J. Immunol. 34, 647-653
A2	Akashi et al., (1997) <i>Cell</i> 89(7) 1033-1041
АЗ	Ali et al., (2000) Transplantation 69:221
A4	Alpdogan et al., (2001) Blood 98:2256
A5	Amado et al., (1999) Front. Biosci. 4:D468-475
A7	Andersen, (1994) Infect. Immunity, 62:2536
A8	Andrew et al., (2002) Exp. Gerontol. 37:455
A9	Andrew, D. and Aspinall, R., (2001) J. Immunol. 166(3): 1524-1530

EXAMINER	DATE CONSIDERED

INFORMATION DISCLOSURE IN AN APPLICATION

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 17
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	-	U.S. F	Patent Documer	nts		
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,024,121	May 17, 1977	Schally et al.			
	4,089,946	May 16, 1978	Foell et al.			
	4,100,274	Jul 11, 1978	Dutta et al.			
	4,118,483	Oct 3, 1978	Konig et al.			
	4,128,638	Dec 5, 1978	Moody			
	4,218,439	Aug 19, 1980	Rivier et al.			
	4,234,571	Nov 18, 1980	Nestor et al.			
	4,275,001	Jun 23, 1981	Konig et al.			

		Foreign	Patent Docum	ents			
EXAMINER DOCUMEN		DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
INITIAL	NUMBER	DATE	00011111	OLAGO	SOBOLAGO	YES	NO
	413209	Feb 20, 1991	Europe				
	7923545	Sep 21, 1979	France				
	2509783	Sep 11, 1975	Germany				
	9112825	Jul 31, 1991	Great Britain				
	9112859	Jul 31, 1991	Great Britain				

	Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
A10	Aspinall, et al., (2000) Vaccine 18:1629
A11	Aspinall, R., (1997) <i>J. Immunol.</i> 158:3037
A12	Atassi et al., (2001) Crit. Rev. Immunol. 21:1
A13	Atlan-Gepner, C., Naspetti, M., et al., (1999) Autoimmunity 3:249-260
A14	Bach (1983) Birth Defects Original Article Ser. 19(3): 245-253
A15	Bahnson <i>et al.</i> , (1997) "Method for Retrovirus-Mediated Gene Transfer to CD34+- Enriched Cells," in <u>Gene Therapy Protocol</u> s (P.D. Robbins, ed.), Humana Press, pp.249-263
A16	Banerjee et al., (1994) Stem Cells 12:378

EXAMINER	DATE CONSIDERED
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INFORMATION DISCLOSURE IN AN APPLICATION

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		U.S.	Patent Documer	nts		
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,490,291	Dec 25, 1984	Fujino			***
	4,608,251	Aug 26, 1986	Mia			
	4,642,332	Feb 10, 1987	Folkers et al.			
	4,656,247	Apr 7, 1987	Folkers et al.			
	4,775,361	Oct 4, 1988	Jacques et al.			
	4,866,160	Sep 12, 1989	Coy et al.			
	4,992,421	Feb 12, 1991	De et al.			
	5,003,011	Mar 26, 1991	Coy et al.			

		Foreign	Patent Docum	ents			
EXAMINER DOCUMENT		DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
INITIAL	NUMBER	DATE	COONTAI	OLASS	SUBCLASS	YES	NO
	WO 88/01176	Feb 25, 1988	WO				
	WO 92/19746	Nov 12, 1992	wo				
	WO 93/15722	Aug 19, 1993	WO				
	WO 94/26285	Nov 24, 1994	WO	1			

	Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
A17	Basch, Ross S. (1990) Aging: Immunology and Infectious Disease, Vol. 2, No. 4, 229-235
A18	Batard et al., (2000) J. Cell. Sci. 113:383-90
A19	Bauer, G., et al., (1997) Blood 89:2259-2267
A20	Belmont and Jurecic (1997) "Methods for Efficient Retrovirus-Mediated Gene Transfer to Mouse Hematopoietic Stem Cells," in <u>Gene Therapy Protocols</u> (P.D. Robbins, ed.), Humana Press, pp. 223-240
A21	Berzins et al., (1999) Proc. Natl. Acad. Sci. USA (17): 9787-9791

EXAMINER	DATE CONSIDERED

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INFORMATION DISCLOSURE IN AN APPLICATION

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U.S. Patent Documents								
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
	5,061,620	Oct 29, 1991	Tsukamoto et al.					
	5,073,624	Dec 17, 1991	Coy et al.					
	5,144,019	Sep 1, 1992	Rossi et al.					
	5,199,942	Apr 6, 1993	Gillis					
	5,258,492	Nov 2, 1993	Schally et al.					
	5,736,524	Apr. 7, 1998	Content et al.					
,	5,399,493	Mar 21, 1995	Emerson et al.					
	5,410,016	Apr 25, 1995	Hubbell et al.	-		,		
	5,506,207	Apr 9, 1996	Rivier et al.					

		Foreign	Patent Docum	nents			
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
INCLA		N04 4004			 	YES	NO
	WO 94/26877	Nov 24, 1994	WO				ļ
	WO 95/08105	Mar 23, 1995	WO				ļ
	WO 96/14853	Mar 23, 1996	WO	<u> </u>			
	WO 96/33281	Oct 24, 1996	wo				
	WO 96/33282	Oct 24, 1996	WO				

	Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
A22	Berzins, S.P., Boyd, R.L. and Miller, J.F.A.P., (1998) <i>J Exp. Med.</i> 187: 1839
A23	Bloom and Murray, (1993) Science 257, 1055
A24	Bodey et al., (1997) In Vivo 11(4): 351-370
A25	Bodey et al., (1997) In Vivo 11(5): 421-440
A26	Bolotin <i>et al.</i> , (1996) <i>Blood</i> 88:1887
A27	Bolotin et al., (1999) Bone Marrow Transplant, 23(8): 783-788
A28	Bonato et al., (1998) Infection and Immunity, 66(1): 169-175

EXAMINER	DATE CONSIDERED
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INFORMATION DISCLOSURE IN AN APPLICATION (Use several sheets if necessary) Docket Number NOR-016CP2/ 286336.155US1 Application Number 10/748,831 Applicant Boyd, Richard Filing Date Group Art Unit

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	U.S. Patent Documents									
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE				
	5,559,703	Sep 24, 1996	lwata et al.							
	5,614,187	Mar 25, 1997	Sachs							
	5,614,502	Mar 25, 1997	Flotte et al.							
	5,624,823	Apr 29, 1997	Sachs et al.							
	5,643,252	Jul 1, 1997	Waner et al.							
	5,658,564	Aug 19, 1997	Sykes et al.							
	5,658,822	Aug 19, 1997	Wu et al.							

	Foreign Patent Documents								
EXAMINER	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION			
INITIAL	NUMBER	5,112	000,1111	02.00	COBOLAGO	YES	NO		
	WO 98/08533	Mar 5, 1998	wo		İ				
	WO 98/23325	Jun 4, 1998	wo						
	WO 99/29728	Jun 17, 1999	wo						
	WO 99/32619	Jul 1, 1999	WO						
	WO 99/53050	Oct 21, 1999	WO						

-		Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
	A29	Bonyhadi, M.L., <i>et al.</i> , (1997) <i>J. Virology</i> 71:4707-4716
	A30	Borremans et al., (1989) Infect. Immunity 57:3123
	A31	Boyd, R.L., Tucek, C.L., Godfrey, D.I., Wilson, T.J, Davidson, N.J., Bean, A.G.D., Ladyman, H.M., Ritter, M.A. and Hugo, P., (1993) <i>Immunology Today</i> 14:445
	A32	Bruijntjes, J.P., Kuper, C.J., Robinson, J.E. and Schutirman, H.J., (1993) <i>Dev. Immunol.</i> 3:113
	A33	Capecchi, M.R., (1980) <i>Cell</i> 22:479-488
	A34	Carayon, P., and Bord, A., (1992) <i>J. Imm. Methods</i> 147:225

EXAMINER	DATE CONSIDERED	
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EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP § 609: Draw Line through citation if not conformance and not considered. Include copy with next communication to applicant.

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Applicant Boyd, Richard

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U.S. Patent Documents								
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
	5,658,892	Aug 19, 1997	Flotte et al.					
	5,681,559	Oct 28, 1997	DiGiusto et al.					
	5,736,524	Apr 7, 1998	Content et al.					
	5,741,706	Apr 21, 1998	Leavitt et al.					
	5,811,275	Sep 22, 1998	Wong-Staal et al.					
	5,814,617	Sep 29, 1998	Hoffman et al.					
	5,839,446	Nov 24, 1998	Waner et al.					

Foreign Patent Documents								
EXAMINER	DOCUMENT	5475	001117017	01.400	SUBCLASS	TRANSLATION		
INITIAL	NUMBER	DATE	COUNTRY	CLASS	SUBULASS	YES	NO	
	WO 01/34815	May 17, 2001	WO					
	WO 03/51272	Jun 26, 2003	WO					

	Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
A35	Castle, S.C., (2000) Clin Infect Dis 31(2): 578-585
A36	Charoenvit et al., (1991) J. Immunol. 146: 1020
A37	Coleman et al., (1989) Ultrasound Med. Biol. 15:213-227
A38	Consolini et al., (2000) Clin. Exp. Immunol. 121(3): 444-447
A39	Davis et al. (1998) Hum. Gene Ther., p. 1197-207
A40	Dawe et al., (1993) Springer Semin. Immunopathol. 14:285
A41	Denis et al., (1998) Infection and Immunity, (66)4:1527-1533

EXAMINER	DATE CONSIDERED	

Sheet

INFORMATION DISCLOSURE IN AN APPLICATION

(Use several sheets if necessary)

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		U.S.	Patent Documen	nts		
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,876,708	Mar 2, 1999	Sachs			
	6,030,833	Feb 29, 2000	Seebach et al.			
	6,056,738	May 2, 2000	Marchitto et al.			
	6,251,099	Jun 26, 2001	Kollias et al.			
	6,296,846	Oct 2, 2001	Sachs et al.			
	6,306,651	Mar 23, 2001	Sachs			
	6,315,772	Nov 13,2001	Marchitto et al.			
	6,492,145	Dec 10, 2002	Lowrie			

Foreign Patent Documents							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS YES	LATION NO

	Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
A42	DeWit et al., (1994) DNA Seq. 4:267
A43	DiGusto et al., (1997) Blood 87:1261
A44	Doria, G., Mancini, C., Utsuyama, M., Frasca, D. and Hirokawa, K, (1997) <i>Mech. Age. Dev.</i> 95: 131-142
A45	Douek et al., (2000) Lancet 355:1875
A46	Douek et al., (2001) J. Immunol. 167:6663-8
A47	Douek, D.C., McFarland, R.D., Keiser, P.H., Gage, E.A., Massey, J.M., Haynes, B.F., Polis, M.A., Haase, A.T., Feinberg, M.B., Sullivan, J.L., Jamieson, B.D., Zack, J.A., Picker, L.J. and Koup, R.A., (1998) <i>Nature</i> 396:690
A48	Dougherty and Parks, (1995) Curr. Opin. Cell Biol. 7:399
A49	Doukas et al., (1995) Ultrasound Med. Biol. 21:961
A50	Dreger et al., (1993) Blood 81:1404
A51	Ellis et al., (2001) Int. Immunol. 13:553-558

EXAMINER	DATE CONSIDERED		
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INFORMATION DISCLOSURE IN AN APPLICATION

(Use several sheets if necessary)

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U.S. Patent Documents						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,558,663	May 6, 2003	Seebach et al.			

Foreign Patent Documents							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS YES	LATION NO

	Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
450	
A52	Engel et al., (1999) Frontiers in Bioscience 4, e26-33
A53	Erben et al., (2001) Horm. Metab. Res. (2001) 33:491
A55	Ernst et al., (1990) J. Immunol. 145:1295
A55	Fabris et al., (1997) Cell Mol. Biol., 43(4): 529-541
	Fabris and Mocchegiani, (1995) Aging Apr; 7(2): 77-93
A56	Fabro et al., (1990) J. Appl. Phys. 68:775,
A57	Faith et al., (1991) Immunol. 74:1
A58	Faltynek et al., (1992) J. Immunol. 149:1276
A59	Fan et al., (2002) J. Immunol. 168:755-62
A60	Fearon and Locksley (1996) Science 272:50
A61	Fernando <i>et al.</i> , (1999) <i>Clin. Exp. Immunol.</i> 115:397
A62	Fitzpatrick et al., (1987) J. Endocr. 113, 51-55
A63	Flurkey et al., (1992) J. Gerontol. 47:B115
A64	Flynn <i>et al.</i> , (1992) <i>Proc. Natl. Acad. Sci. USA</i> 89:12013
A65	Franke et al., (2000) Infect. Immun. 68:3403
A66	Fredrickson, G.G. and Basch, R.S., (1994) <i>Development and Comparative Immunology</i> 18:251
A67	Fry et al., (2001) Blood 97(6): 1525-1533
A68	Fry, et al., (2001) Trends Immunol. 22(10): 564-571
A69	Garrovillo et al., (1999) Transplantation 68:1827
A70	Garrovillo et al., (2001) Am. J. Transplant. 1:129

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation is considered, wheth 609: Draw Line through citation if not conformance a communication to applicant.	

Sheet

INFORMATION DISCLOSURE IN AN APPLICATION

(Use several sheets if necessary)

OF

17

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Docket Number NOR-016CP2/ 286336.155US1 Application Number 10/748,831

Applicant Boyd, Richard

Filing Date December 30, 2003

A71	Garzetti et al., (1996) Obstet. Gynecol. 88: 234-40				
A72	George, A. J. and Ritter, M.A., (1996) Immunol. Today 17:267				
A73	Gill et al., (2002) Nat. Immunol. 3:635				
A74	Girasole et al., (1992) J. Clin. Invest. 89:883				
A75	Godfrey, D. I, and Zlotnik, A., (1993) Immunol. Today 14:547				
A76	Godfrey, D.I, Izon, D.J., Tucek, C.L., Wilson, T.J. and Boyd, R.L., (1990) <i>Immunol.</i> 70:66				
	Goldberg et al., (2003) Poster Presentation, ASBMT, Keystone USA				
A77	Goldberg et al., (2003) Abstract, ASBMT, Keystone USA				
A78	Goldberg et al., (2002) Abstract/Poster Presentation ASH, Philadelphia USA				
A79	Goldberg <i>et al.</i> , (2002) Abstract of Oral Presentation, Immunology Group of Victoria, Beachworth AU				
A80	Graham, F.L. and Van Der Eb, A.J., (1973) <i>Virology</i> 52:456-457				
A81	Greenstein et al., (1987) J. Endocr., 112, 345-350				
A82	Greenstein et al., (1986) J. Endocr. 110, 417-422				
A83	Grossman, Charles J. (1984) Endocrine Reviews, 5(3): 435-455				
A84	Grossman, Charles J. (1985) <i>Science</i> 227: 256-261				
A85	Hadden, John W. (1998) New York Academy of Sciences, 840: 352-358				
A86	Hannet <i>et al.</i> , (1992) <i>Immunol. Today</i> , June; 13(6): 215-218				
A87	Haseloff and Gerlach (1988) Nature 334:585				
A84	Haynes, B.F., Hale, L.P., Weinhold, K.J., Patel, D.D., Liao, HX., Bressler, P.B., Jones, D.M., Demarest, J.F., Gebhard-Mitchell, K., Haase, A.T. and Bartlett, J.A., (1999) <i>J. Clin. Invest.</i> 103: 453-460				
A89	Hazenberg <i>et al.</i> , (2001) <i>J. Mol. Med.</i> 79:631-40				
A90	Heitger, A., Neu, N., Kern, H. and Fink, F.M., (1997) <i>Blood</i> 90: 850-857				

EXAMINER	DATE CONSIDERED				
EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP §					
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OF

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Docket Number NOR-016CP2/ 286336.155US1 Application Number 10/748,831

Applicant Boyd, Richard

Filing Date December 30, 2003

A91	Heitger, A., Winklehner, P., et al., (2002) <i>Blood</i> 99:4053-4062
A92	Hertogh-Huijbregts et al., (1990) Mech. Ageing Dev. 53:141-155
A93	Hirokawa, K. and Makinodan, T., (1975) J. Immunol. 114:1659
A94	Hirokawa, (1998) "Immunity and Ageing," <i>in PRINCIPLES AND PRACTICE OF GERIATRIC MEDICINE</i> , (M. Pathy, ed.) John Wiley and Sons Ltd.
A95	Hirokawa, K., Utsuyama M., Kasai, M., Kurashima, C., Ishijima, S. and Zeng, YX., (1994) <i>Immunology Letters</i> 40:269
 A96	Hobbs, M.V., Weigle, W.O., Noonan, D.J., Torbett, B.E., McEvilly, R.J., Koch, R.J., Cardenas, G.J. and Ernst, D.N., (1993) <i>J. Immunol.</i> 150:3602
A97	Hochberg <i>et al.</i> , (2001) <i>Blood</i> 98:1116-21
A98	Hoffman <i>et al.,</i> (1991) <i>Science</i> 252: 520
A99	Homo-Delarche et al., (1993) Springer Sem. Immunopathol. 14:221
A101	Hsu et al., (2000) Cancer Res. 60:3701
A102	Hu et al., (1993) Int. Immunol. 5:1035-1039
A103	Huiskamp, R., Davids, J.A.G. and Vos, O., (1983) Radiation Research 95:370
A104	Huiskamp et al., (1985) J. Immunol., 134(4): 2161-2171
A105	Huygen et al., (1992) Infect. Immunity 60:2880
A106	Igarashi et al., (2001) Proc. Natl. Acad. Sci. USA, 98(26): 15131-15136
A107	Jacobson et al. (1999) Endocrinology, 140(8): 3429-3437
A108	Jacobson et al., (1999) J. Allergy Clin. Immunol., 104(3): Pt. 1, 653-658
A109	Jacobson et al., (1994) Endocrinology, Vol. 184(6): 2516-2523
A110	Janeway et al., (2001) Immunobiology 5th Ed., p. 325

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation is considered, wheth 609: Draw Line through citation if not conformance communication to applicant.	

Sheet

INFORMATION DISCLOSURE IN AN APPLICATION

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OF

17

11

Docket Number NOR-016CP2/ 286336.155US1 Application Number 10/748,831

Applicant Boyd, Richard

Filing Date December 30, 2003 Group Art Unit TBA

A111	Jansson et al., (1994) J. Neuroimmunology 53:203-207	
A112	Jenkinson et al., (1985) Transplantat. 39:331	
A113	Junker et al., (1998) <i>Hum Gene Ther.</i> , p. 333-40	
A114	Kamradt, T. and Mitchison, N.A., (2001) N. Engl. J. Med. 344:655-664.	
A115	Kendall et al., (1990) Cell Tissue Research, 261(3)555-64	
A116	Kendall, (1988) "Anatomical and physiological factors influencing the thymic microenvironment," in THYMUS UPDATE I, Vol. 1. (M. D. Kendall, and M. A. Ritter, eds.) Harwood Academic Publishers, p. 27	
A117	Kincade et al., (2002) Immunology, 14: 385-394	
A118	Kincade et al. (2000) Immunological Reviews, 175: 128-137	
A119	Kirschmann et al., (1992) Cell. Immunol. 139:426	
A120	Kissin <i>et al.</i> , (1987) <i>Radiology</i> , 163(1): 67-70	
A121	Kohen et al., (1998) Developmental Immunology, 5: 277-285	
A122	Kohn, D.B., et al., (1999) Blood 94:368-371	
A124	Komschlies et al., (1995) J. Leukoc. Biol. Dec.; 58(6): 623-633	
A125	Kouro et al., (2001) Blood 97:2708	
A126	Krijanovski, <i>et al.</i> , (1999) <i>Blood</i> 94:825	
A127	A127 Krug (2004) Sem. Oncol. 31:112	
A128	Kurashima, C, Utsuyama, M., Kasai, M., Ishijima, S.A., Konno, A. and Hirokawa, A., (1995) <i>Int. Immunol.</i> 7:97	
A129	Landstrom et al., (1997) Int. J. Cancer 71, 451-455	
A131	LeMaoult <i>et al.</i> , (1999) <i>J. Immunol.</i> 162:6384-6391	
A132	LeMaoult et al., (2000) J. Immunol. 165:2367	
A133	Leposavic et al., (1995) Neuroimmunodulation 2:100-107	

EXAMINER	DATE CONSIDERED
EVAMINED:	

Sheet

INFORMATION DISCLOSURE IN AN APPLICATION

(Use several sheets if necessary)

12

OF

17

Docket Number NOR-016CP2/ 286336.155US1 Application Number 10/748,831

Applicant Boyd, Richard

Filing Date December 30, 2003 Group Art Unit TBA

A134	Lewin et al., (2002) Blood 100:2235	
A135	Lin et al., (1996) Cancer Res. 56:21	
A136	Lincz et al., (2001) Leuk. and Lymph. 40: 373	
A138	Mackall et al., (1997) Immunology Today, 18(5): 245-251	
A139	Mackall, C.L. and Gress, R.E., (1997) Immunol. Rev. 160:91	
A140	Mackall, C.L. <i>et al.</i> , (1995) <i>New England J. Med.</i> 332:143	
A141	Mackall, C.L., Punt, J.A., Morgan, P., Farr, A.G. and Gress, R.E., (1998) <i>Eur. J. Immunol.</i> 28: 1886-1893	
A142	Maraskovsky et al., (1997) Cell 89(7): 1011-9	
A143	Martinez et al., (2003) <i>J. Clin Invest</i> . 111:1365	
A144	Masuzawa et al., (1994) J. Clin. Invest. 94:1090	
A145	Matera L, Neuroimmunomodulation (1997) 4(4): 171-80	
A146	Matzinger et al., (1989) Nature 338:74-60	
A147	Medina et al., (2001) Nat. Immunol. 2:718	
A148	Mercader et al., (2001) PNAS 98(25): 14565-14570	
A149	Miller et al., (1976) J. Immunol. 117:1519	
A150	Mocchegiani et al., (1990) Horm. Res. 33(6): 248-55	
A152	Morale et al., (1991) Endocrinology, 128(2): 1073-1085	
A153	Morelli et al., (2001) Semin. Immunol. 13:323-335	
A154	Morrissey et al., (1991) J. Immunol. 146:1547	
A155	Mosley et al., (1998) Cell. Immunol. 189:10	
A156	Murasko, D.M., Bernstein, E.D., et al., (2002) Exp. Gerontol. 37:427-439	
A157	Nabel, E.G. et al., (1992) Hum. Gene Ther. 3:649-656	
A158	Nicoletti et al., (1993) J. Immunol. 150:543-549	

EXAMINER	DATE CONSIDERED

Sheet

INFORMATION DISCLOSURE IN AN APPLICATION

(Use several sheets if necessary)

OF

17

13

Docket Number NOR-016CP2/ 286336.155US1 Application Number 10/748,831

Applicant Boyd, Richard

Filing Date December 30, 2003 Group Art Unit TBA

	A159	Nikolic et al., (2000) Blood, 96(3): 1166-1172
	A160	Noach et al., (2002) Blood 100:312
	A161	Nowak, Rachel (1999) New Scientist, pg. 11
	A162	Oberbeck R., (2003) <i>J. Surg Res.</i> 113(2): 248-56
	A163	Ohnishi <i>et al.</i> , (2003) <i>Int. J. Mol. Med.</i> 1:331
	A164	Oliver et al., (1995) Urol. Int., 54:226-229
	A165	Olsen et al., (2001) Endocrinol. 142:1278
	A166	Olsen, et al., (2001) J. Clin. Invest. 108:697
101000	A167	Oluwole et al., (1993) Transplantation 56:1523-1527
	A168	Oosterwegel et al., (1997) Immunity 6(3): 351-360
	A169	Orme et al., (1993) J. Infect. Dis. 167:1481
	A170	Ortman et al., (2002) Int. Immunol. 14:813
	A171	Pacheco et al., (1979) J. Parisitol. 65:414
	A172	Panerai and Sacerdote, (1997) Immunol. Today 4: 191-192
	A173	Panoskaltsis, N, and C.N. Abboud, (1999) Frontiers in Bioscience 4:457
	A174	Panoskaltsis-Mortari <i>et al.</i> , (2000) <i>Blood</i> 96:4350
	A175	Parkman <i>et al.</i> , (1997) <i>Immunol. Rev.</i> 157:73
	A176	Pawelec et al., (1999) Frontiers in Bioscience 4, 216-269
	A177	Penit, C. and Ezine, S., (1989) Proc. Natl. Acad. Sci, U.S.A. 86:5547
	A178	Penit, C., Lucas, B., Vasseur, F., Rieker, T. and Boyd, R.L., (1996) Dev. Immunol. 5:25
	A179	Perriman et al., (1992) Gene 113:157
	A180	Peschon et al., (1994) J. Exp. Med. 180(5): 1955-1960
	A181	Plavec et al., (1996) Gene Ther, p. 717-24
	A182	Plosker, G.L. and Brogden, R.N., (1994) Drugs 48:930
	A183	Podda et al., (1992) Proc. Natl. Acad. Sci. USA 89:9676

EXAMINER	DATE CONSIDERED

Sheet

INFORMATION DISCLOSURE IN AN APPLICATION

(Use several sheets if necessary)

14

OF

17

Docket Number NOR-016CP2/ 286336.155US1 Application Number 10/748,831

Applicant Boyd, Richard

Filing Date December 30, 2003 Group Art Unit TBA

A184	Potter, H., Weir, L., and Leder, P., (1984) <i>Proc. Natl. Acad. Sci. USA</i> 81:7161-7165	
A185	Prasad et al., (1988) J. Clin. Invest. Oct; 82(4): 1202-1210	
A186	Randle-Barrett and Boyd (1995) Dev. Immunol. 4:101	
A188	A188 Ranga et al., (1998) Proc. Natl. Acad. Sci. USA 95:1201	
A189	Rao et al., (1994) Am. J. Reproductive Immunology, 32:238-247	
A190	Renia et al., (1993) J Immunol. 150:1471	
A191	Repique et al., (2002) Infection and Immunity, p. 3318-3323	
A192	Robinson, et al. (2000) Adv. Virus Res. 55:1-74	
A193	Rodrigues et al., (1991) Int. Immunol. 3: 579	
A194	Romain et al., (1993) Proc. Natl. Acad. Sci. USA 90:5322	
A195	Rosenzweig et al., (1997) Blood, 90(12): 4822-4831	
A196	Rossi, S., Blazar, B.R., et al., (2002) Blood 100:682-691	
A197	Sato et al., (2004) Br. J. Cancer 90:1334	
A198	Scollay, R.G., Butcher, E.C. and Weissman, I.L., (1980) Eur. J. Immunol. 10:210	
A199	Seder and Paul (1994) Annu. Rev. Immunol. 12:635	
A200	Segeren <i>et al.</i> , (1999) <i>Br. J. Haem.</i> 105: 127-130	
A201	Sempowski et al., (2002) Mol. Immunol. 38:841-84	
A202	Sempowski, G.D., Hale, L.P., Sundy, J.S., Massey, J.M., Koup, R.A., Douek, D.C., Patel, D.D. and Haynes, B.F., (2000) <i>J. Immunology</i> 164: 2180-2187	
A203	Shaffer and Scher (2003) Lancet Oncol. 4:407	
A204	Shippy et al., (1999) Mol. Biotechnol.12: 117	
A205	Shortman, K., Egerton, M., Spangrude, G.J. and Scollay, R., (1990) Seminars in Immuno. 2:3	
A206	Shu et al., (1993) J. Virol. 67:2723	
A208	Shull et al., (1992) Nature 359:693	
	A185 A186 A188 A189 A190 A191 A192 A193 A194 A195 A196 A197 A198 A199 A200 A201 A202 A203 A204 A205 A206	

EXAMINER	DATE CONSIDERED
EVAMINED	DATE CONSIDERED

Sheet

INFORMATION DISCLOSURE IN AN APPLICATION

(Use several sheets if necessary)

OF

17

15

Docket Number NOR-016CP2/ 286336.155US1 Application Number 10/748,831

Applicant Boyd, Richard

Filing Date December 30, 2003 Group Art Unit TBA

A209	Silva and Lowrie, (1994) Immunol. 82:244	
A210	Smithson et al., (1995) J. Immunol. 155:3409	
A212	Smithson et al., (1998) J. Immunol. 161:27-35	
A213	Soares et al., J. Immunol. (1998) 161:5909-5917	
A214	Starzl, T.E., Demetris, A.J., Murase, N., Ricardi, C. and Truce, M., (1992) Lancet 339:1579	
A215	Steffens et al., (2000) Clin. Immunol. 97:95	
A216	Stern et al., (1989) Corneal Laser Ablation, 107: 587-592	
A217	Storek et al., (1997) Am. J. Hematol. 54:131	
A218	Storek et al., (2001) Blood 98:3505	
A219	Strayer, D.S., Branco, F. et al., (2002) Therapy 5:33-41	
A220	Suda and Zlotnik, (1992) <i>J. Immunol.</i> 149(1): 71-76	
A221	Suda, T., and Zlotnik, A., (1991) <i>J. Immunol.</i> 146:3068	
A222	Takeoka, Y., Taguchi, N. et al., (1999) Clin. Immunol. 90:388-398	
A223	Talwar, (1999) Immunol. Rev. 171:173-92	
A224	Tang et al., (1997) J. Immunol. 159:117	
A225	Tanghe, et al., (2001) Infection and Immunity, p. 3041-3047	
A226	Tanghe et al., (2000) Infection and Immunity 68(7): 3854-3860	
A227	THE JORDAN REPORT 2000: ACCELERATED DEVELOPMENT OF VACCINES, published by the Division of Microbiology and Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health (available at http://www.niaid.nih.gov/publications/pdf/jordan.pdf –last visited Apr. 2004)	
A228	Thomas-Vaslin, V., Damotte, D. et al., (1997) <i>P.N.A.S. (U.S.A.)</i> 94:4598-4603	
A229	Thomson, A.W. and Lu, L., (1999) Immunology Today 20(1):27	
A230	Thurmond et al., (2000) Endocrinol. 141:2309	
	A210 A212 A213 A214 A215 A216 A217 A218 A219 A220 A221 A222 A223 A224 A225 A226 A227	

EXAMINER	DATE CONSIDERED

Sheet

INFORMATION DISCLOSURE IN AN APPLICATION

(Use several sheets if necessary)

16

OF

17

Docket Number NOR-016CP2/ 286336.155US1 Application Number 10/748,831

Applicant Boyd, Richard

Filing Date December 30, 2003 Group Art Unit TBA

	A231	Timm, J.A. and Thoman, M.L., (1999) <i>J. Immunol.</i> 162:711	
	A232	Tomita et al., (1994) J. Immunol. 153:1087-1098	
	A233	Tosi et al., (1982) Clin. Exp. Immunol. Feb; 47(2): 497-504	
	A235	Ulmer et al., (1993) Science 259:1745	
	A236	Umesaki et al., (1999) Gynecol. Obstet. Invest. 48:66-8	
	A237	Utsuyama et al, (1989) Mech. of Ageing Dev. 175-185	
	A238	Utsuyama et al., (1995) Mech. Ageing Dev. 107-117	
	A239	van Ewijk <i>et al.</i> , (1991) <i>Annu. Rev. Immunol.</i> 9:591-615	
	A240	van Ewijk, W., Rouse, R.V. and Weissman, I.L., 1980 J. Histochem. Oct 28(10): 1089	
	A241	Viselli et al., (1997) Cellular Immunology 182, 99-104	
	A242	Viselli et al. (1995) Immunology 84: 337-342	
	A243	Vickery et al., (1984) LHRH AND ITS ANALOGS: CONTRACEPTIVE & THERAPEUTIC APPLICATIONS (Vickery et al., eds.) MTP Press Ltd., Lancaster, PA	
:	A244	Von Freeden-Jeffry, U., Vieira, P., Lucian, L.A., McNeil, T., Burdach, <i>E.G.</i> and Murray, R., (1995) <i>J. Exp. Med.</i> 181:151	
	A245	Waldrop et al., (1998) J. Immunol. 161(10): 5284-95	
	A246	Wang et al., (2003) Br. J. Cancer 88:887	
	A247	Waterhouse et al., (1998) Proc. Natl. Acad. Sci. USA 95:13959	
	A248	Weinberg et al., (1995) Biol. Blood Marrow Transplant1 (1): 18-23	
	A249	Weiss et al., (1988) Proc. Natl. Acad. Sci USA 85:573	
	A250	Weiss et al., (1992) J. Immunol. 149:2103	
	A251	Weksler et al., (2000) Vaccine 18:1624-1628	
	A252	Weyand, C.M., Brandes, J.C., Schmidt, D., Fulbright, J.W. and Goronzy, J.J., (1998) Mech. Age. Dev. 102: 131-147	

EXAMINER	DATE CONSIDERED

Sheet

INFORMATION DISCLOSURE IN AN APPLICATION

(Use several sheets if necessary)

17

OF

17

Docket Number NOR-016CP2/ 286336.155US1 Application Number 10/748,831

Applicant Boyd, Richard

Filing Date December 30, 2003 Group Art Unit TBA

A253	Wiker and Harboe, (1992) Microbiol. Rev. 56: 648	
A254	Wiles, M.V., Ruiz, P. and Imhof, B.A., (1992) Eur. J. Immunol. 22:1037	
A255	Wilson et al., (1995) Blood 85:1535	
A256	Windmill and Lee, (1998) Tissue Cell 30(1): 104-111	
A257	Windmill et al. (1993) Reprod. Fertil. Devl. 5, 73-81	
A258	Woffendin et al., (1994) Proc. Natl. Acad. Sci. USA, 91:11581	
A259	Woffendin et al., (1996) Proc. Natl. Acad. Sci. USA, 93:2889	
A260	Wu et al., (1996) Am. J. Repro. Immunol. 35(6): 510-516	
A261	Yang, NS. and P. Ziegelhoffer, (1994) "The Particle Bombardment System for Mammalian Gene Transfer," In Particle Bombardment Technology for Gene Transfer (Yang, NS. and Christou, P., eds.), Oxford University Press, New York, pp. 117-141	
A262	Young and Garbe, (1991) Res. Microbiol. 142:55	
A263	Zhang <i>et al.</i> , (1999) <i>J. Exp. Med.</i> 190:725	
A264	Zlotnik, A. and Moore, T.A., (1995) Curr. Opin. Immunol. 7:206.	

I EXAMINER	DATE CONSIDERED